

IN THE CLAIMS

Please amend the claims as follows:

Claims 1-20 (Canceled).

Claim 21 (New): A radio communication method for a radio communication system in which output signals are generated from a plurality of information signals and then transmitted to a system of communication partner from a plurality of antennas, comprising:  
receiving control information transmitted by the system of communication partner;  
determining, based on the received control information, a first weight for one of the plurality of information signals with respect to the plurality of antennas, and a second weight for another one of the plurality of information signals with respect to the plurality of antennas;

generating a first operation result by multiplying the one of the plurality of information signals by the first weight, and generating a second operation result by multiplying the another one of the plurality of information signals by the second weight; and  
generating, based on the first operation result and the second operation result, a plurality of the output signals each corresponding to one of the plurality of antennas, and transmitting the plurality of the output signals to the system of communication partner.

Claim 22 (New): The radio communication method according to Claim 21, wherein the transmission comprises generating the plurality of the output signals by one of applying different modulation schemes between the first operation result and the second operation result and applying different encoding methods between the first operation result and the second operation result.

Claim 23 (New): A radio communication system in which output signals are generated from a plurality of information signals and then transmitted to a system of communication partners from a plurality of antennas, comprising:

a reception device for receiving control information transmitted by the system of communication partner;

a weight determining device for determining, based on the received control information, a first weight for one of the plurality of information signals with respect to the plurality of antennas, and a second weight for another one of the plurality of information signals with respect to the plurality of antennas;

an operation device for generating a first operation result by multiplying the one of the plurality of information signals by the first weight, and generating a second operation result by multiplying the another one of the plurality of information signals by the second weight; and

a transmission device for generating, based on the first operation result and the second operation result, a plurality of the output signals each corresponding to one of the plurality of antennas, and transmitting the plurality of the output signals to the system of communication partner.

Claim 24 (New): The radio communication system according to Claim 23, wherein the transmission device generates the plurality of the output signals by one of applying different modulation schemes between the first operation result and the second operation result and applying different encoding methods between the first operation result and the second operation result.